Release A CDR RID Report

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Originator Chris Lynnes

Organization GSFC DAAC

E Mail Address lynnes@daac.gsfc.nasa.gov

Document Document Server Design

Phone No (301) 286-2260

RID ID	CDR	20
Review	SDPS/CSMS	
Originator Ref	GD-CDR-CL-10	
Priority	2	

Section **Page** 5-1 **Figure Table**

Category Name Data Server (DSS) Design **Actionee** ECS

Sub Category

Subject V0 Client access to V1 guide

Description of Problem or Suggestion:

The V0 Client uses native WAIS protocol for the Guide Search, not http/gateway protocol. Thus, an NCSA http server (in DDSRV) will not intercept and interpret the search; the server must be a (modified) WAIS server. (The modification is to not break words on '=' and '_'.) Also, the V0 Client relies on Keyword = Value metadata in HTML comments to execute attribute/value searches using WAIS.

Originator's Recommendation

Either:

1) Modify V0 client before freeze to talk to either V0 WAIS servers or V1 http gateways

2) Add a WAIS server & method to generate Keyword = Value metadata to V1 Guide documents. Modify WAIS server according to above V0 requirements.

GSFC Response by: **GSFC Response Date**

HAIS Response by: E. Nakamura **HAIS Schedule** 9/6/95

HAIS R. E. E. Nakamura **HAIS Response Date** 11/1/95

The DDSRV team used the EOSDIS IMS Guide Subsystem Design Document, Version 0.1, as the baseline for designing its interface to the Release A Guide subsystem. Section 5.0, Page 23 depicts the Guide architecture, but does not show a WAIS interface between the V0 Client Guide Search requests and the V0 Guide Servers. This interface is described as an HTTP search. Concur that if the interface is not as it is described in the design document but actually works as described in the subject RID, then the current Release A DDSRV design is not sufficient.

This RID was resolved in conjunction with design activities which culminated in the Design Freeze of the Release A Search and Order tool, and was presented at Oct 17 Design Review. The Release A client will modify its archive.odl file to identify the DDSRV as an http server. The V0-ECS Interoperability ICD was subsequently updated (Oct 18) to document the interface agreement (Document Number : 209-CD-011-002, Section No./Paragraph No. : Sections 2, 3, 4 and Appendix, Page No. : 2-1, 3-1, 3-2, 4-2, 4-6, 4-20, 4-21, 4-22, AB-2).

A key feature of the DDSRV design is that the keywords used to index the documents will be stored in the SDSRV, providing a common data model for metadata on documents and products. This also eliminates the need to include the "keyword=value" metadata in the documents themselves, because the keyword searches will be resolved by the Release A SDSRV DBMS (Sybase), and not by a WAIS index, which generally inverts files on word boundaries. Keywords are to be extracted from documents by the Ingest subsystem upon insertion into the Data Server. As queries enter the DDSRV through the HTTP interface, they are routed to a parser (via the CGI or common gateway interface, or a vendor API) which formats them into the distributed objects used for submitting searches to the SDSRV. The query objects are then sent to the SDSRV for procesing, and results are returned to the DDSRV for formatting and submital to the client.

The resolution of this RID obviates the need for the DDSRV to provide a WAIS interface to guide searching, and the requirement for the "keyword=value" metadata to be included in the comments sections of documents. 36

Status **Closed** **Date Closed** **11/9/95** **Sponsor** **Kobler**

****** **Attachment if any** ******